



# State of the Services FY 2022 Report

October 2021 - September 2022

## Engagement Events Highlights

### NOAA Private Sector Listening Sessions

Virtual | October 2021 - March 2022

- The National Centers for Environmental Information (NCEI) led a series of private sector listening sessions on behalf of the Department of Commerce (DOC) and NOAA, designed to be the first of many opportunities for NOAA to engage on industry needs related to climate and environmental information across five different economic sectors.
- DOC and NOAA Leadership and subject matter experts participated by listening to industry leaders share how they currently use NOAA information, barriers they have encountered, and emerging priorities within each sector.



### Congressional Staff Visit

Stennis Space Center, MS | August 22-26

- NCEI-MS hosted five Congressional Staffers from the House and Senate Science Commerce Committees. Staffers were taken to the National Marine Fisheries Service's Southeast Fisheries Science Center, toured the NOAA Ship *Gordon Gunter*, Mississippi-Alabama Sea Grant Consortium, and the University of Southern Mississippi's Marine Science Center.
- NCEI provided a brief at Stennis Space Center focusing on data management, regional climate services, NCEI's numerous science programs, and were shown a live dive feed from the NOAA Ship *Okeanos Explorer*.



## Product and Services Highlights



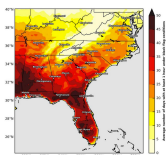
### Hurricane Ida's Impact on Socially Vulnerable Communities StoryMap Release

NCEI published *In Harm's Way: Hurricane Ida's Impact on Socially Vulnerable Communities* StoryMap which looks at the regions and people impacted by Hurricane Ida and how the most vulnerable populations weathered the storm and continue to recover from its impact. Sources incorporate NCEI's Billion-Dollar Disaster data with interviews from the National Weather Service (NWS), and contacts from two of the Regional Climate Service Directors (RCSDs), including experts from industry and academia.



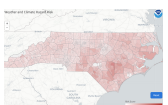
### 2022 Billion-Dollar Disasters Update

Fifteen billion-dollar weather and climate disasters were identified during January-early October, the fifth-highest disaster count in the 43-year record for this year-to-date period. These disasters were due to ten severe weather, one broad-area drought, one flooding, two tropical cyclone, and one wildfire events.



### Wet Bulb Globe Temperature Tool Expansion

The Southeast Regional Climate Center recently completed an expansion of the Wet Bulb Globe Temperature tool for the eastern half of the Continental United States. The data are now available from North Dakota to Texas and everywhere eastward. Wet bulb globe temperature is used to estimate heat stress and is used for planning safe outdoor activities.



### New Maps Added to the Billion-Dollar Weather and Climate Disasters Product

The NCEI Billion-Dollar Disaster and Risk Mapping tools now include U.S. Census tract data, expanding on FEMA's National Risk Index to provide an integrated view of U.S. hazard risk, exposure, and vulnerability across more than 100 combinations of weather and climate hazards.



### nClimGrid-Daily Operational Release

NCEI released nClimGrid-Daily, a daily 5-km gridded climate dataset for the contiguous U.S. This complements the existing monthly gridded dataset and addresses frequent requests from users for this data.

## Stakeholder Highlights



NCEI's Regional Climate Services Directors (RCSDs) across the country supported the NOAA regional climate and equity roundtables. These events were coordinated and hosted by the NOAA Regional Collaboration Teams and NCEI was asked to leverage existing relationships in the regions to bring many of the speakers and participants to the table.

### OCEAN EXPLORATION

NCEI's Ocean Exploration Data Management Team recently sailed on NOAA Ship *Okeanos Explorer* and developed a new cloud-based procedure for tracking all over-the-side data collection sites. Onboard scientists can now easily record deployment and recovery information and upload that information to the newly developed Current Station Log for *Okeanos Explorer* ArcGIS Online service. This service has been added to the Live Operations Map for improved near-real-time data display. This workflow can be updated from the ship and on the shore, allowing NCEI to troubleshoot from the shore in near-real-time.



NCEI chaired a session titled "Maximizing the Value of NOAA Data with User Engagement" during the NOAA Environmental Data Management Workshop. This session has been a popular session in the past and remained so this year with a total of nine presentations and approximately 80 participants. The NCEI presentations described the implementation of the NOAA Service Delivery Model through sectoral communities of practice and through regional climate services as well as highlights from the recent NOAA Private Sector Listening Sessions.



NCEI is partnering with municipalities, academics, and non-government organizations to identify needs in preparing for high heat events in Las Vegas, Phoenix, Charleston, and Miami. NCEI is collaborating with NOAA's Geophysical Fluid Dynamics Laboratory and the National Integrated Heat Health Information System to host a post-doc who is working to downscale temperatures to city scales for the improvement of future inner-city heat projections.

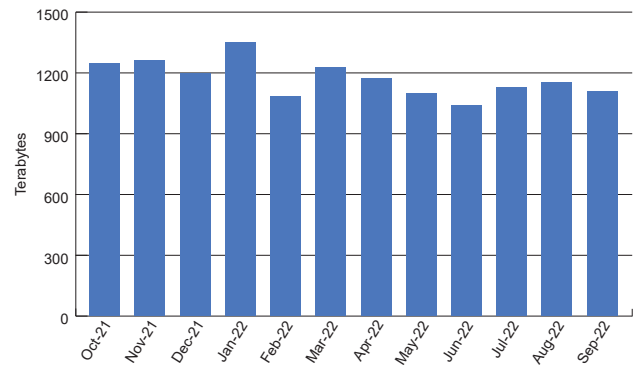
### Upcoming Engagements

American Geophysical Union Fall Meeting 2022	Dec. 12-16, 2022
American Meteorological Society Annual Meeting 2023	Jan. 8-12, 2023
Bays and Bayous Symposium	Jan. 24-25, 2023
NWS Climate Prediction Applications Science Workshop	May 9-11, 2023

## Customer Reach

### NCEI Makes Data Accessible

- 3.66B web hits and 14k TBs of data delivered online\*

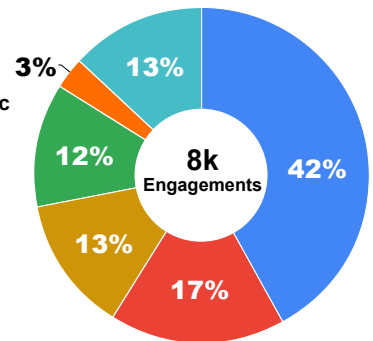


\*Analytics include model & satellite data; data statistics may not be comprehensive across NCEI (e.g. CLASS)

### NCEI Serves Every U.S. Sector in FY2022

- Top Sectors

- Professional, Scientific, and Technical Services
- Other Services (except Public Administration)
- Public Administration
- Educational Services
- Finance and Insurance
- Others (Combined)



## Unique Customer Requests

### Great Lakes Navigators "Blow Days"

Great Lakes captains and navigators are interested in tracking trends in "blow days," or rough weather days in the Great Lakes. The request comes mainly from fish captains to determine if it will be too windy to go out. They would like to better understand how wind is trending recently for better planning. The request comes via a SeaGrant outreach specialist who noted National Data Buoy Center data is available across the Lakes for analysis.

### FBI Data Delivery

A special agent from the Dallas FBI Office contacted NCEI concerning an investigation into three marine trackline geophysical web data requests. As part of the investigation they required delivery of the datasets from the web requests. NCEI Data Managers worked with the NCEI Operations and Maintenance Team to provide the FBI with the data and additional information surrounding the web requests.

### Fans



97.8k



63.4k



6.9k

